

Perspective: Significance of Lake Conestee Sediment PAHs Compared to Bramlette MGP Cleanup

Duke Energy Bramlette Rd Manufactured Gas Plant (1917-1952)	Lake Conestee Contaminated Sediment Characteristics
Limited Site Remediation 2002	Site Assessment 2000-2004 – No Removal
Processing residuals from MGP works <ul style="list-style-type: none"> • Coal oil / coal gas • Coal tar • Polycyclic Aromatic Hydrocarbons (PAHs) • Site Specific Cleanup Standards <i>Sum Carcinogenic PAHs</i> 319 ug/kg CPAHs	Carcinogenic PAHs in LC sediments <ul style="list-style-type: none"> • Sum of CPAHs (mean concentration) 4,000 ug/kg • >12X Bramlette Rd cleanup standard • 3.1 Million Tons of contaminated sediment trapped in LC (91X mass thermally treated in 2002 Bramlette Remedial Action)
Limited Remedial Action [soils only/no sediments] <ul style="list-style-type: none"> • Contaminated soil from MGP Site removed, generally top 3 ft [none south of Bramlette Rd] • Most highly contaminated soil removed and treated off-site 33,944 tons [1655 truckloads] • Equivalent to ~ 21.6 lbs of CPAHs • Trucked to SE Soil Recovery, Laurens Co • Thermal treatment: 2000F to destroy PAHs • Trucked back to Bramlette Rd site for fill • Additional 27,144 tons taken to Palmetto LF 	Notes: <ul style="list-style-type: none"> • PAHs are Ecological & Human Health Risk Driver for LC • LC Remedy is Monitored Natural Recovery • Dependent on containment by LC Dam as 'Waste Containment Structure' • Uncontrolled Release of contaminated sediments from LC – Jun 2000-Jun 2001 <ul style="list-style-type: none"> ○ 128,250 tons ○ 1,026 lbs of CPAHs released downriver

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